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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/557,758	11/17/2005	Gregory L. Branch	110120.402	1471	
31740 THOMAS LOC	7590 05/13/200 <b>)P</b>	8	EXAMINER		
P.O. BOX 2146	66		LEE, EDMUND H		
SEATTLE, WA	. 98111		ART UNIT	PAPER NUMBER	
			1791		
			MAIL DATE	DELIVERY MODE	
			05/13/2008	PAPER	

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Occurrence		Ap	plication No.	Applicant(s)				
		10	)/557,758	BRANCH ET AL.	BRANCH ET AL.			
Office Action Summary			aminer	Art Unit				
		EC	MUND H. LEE	1791				
Period fo	The MAILING DATE of this commun or Reply	nication appears	on the cover sheet w	ith the correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN SOLUTION OF THE INSIGN OF THE INSI	MAILING DATE s of 37 CFR 1.136(a). munication. tatutory period will app will, by statute, caus	OF THIS COMMUNION In no event, however, may a soly and will expire SIX (6) MONE the application to become AE	CATION. reply be timely filed ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status								
1)[\	Responsive to communication(s) file	ed on 25 Anril 2	2008					
•	•	2b)⊠ This acti						
3)		<i>7</i> —		ers prosecution as to th	e merits is			
٥,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) <u>15-18,23-25 and 28</u> is/are	pending in the	application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed.							
	Claim(s) <u>15-18,23-25 and 28</u> is/are	rejected						
· ·	Claim(s) is/are objected to.	,						
•	Claim(s) are subject to restrict	ction and/or ele	ction requirement.					
	ion Papers		·					
	-	o Evaminar						
•	The specification is objected to by th The drawing(s) filed on is/are		d or b)□ objected to	by the Evaminer				
10)	Applicant may not request that any obje		•	-				
					YED 1 121/d\			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	Paper No(	Summary (PTO-413) s)/Mail Date nformal Patent Application 				

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## **DETAILED ACTION**

1. It should be noted that examiner of record has changed from Ex. Kuhns to Edmund Lee.

- 2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/25/08 has been entered.
- 3. Claims 15-18,23-25, and 28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Step (c) of claim 15 is indefinite because it is unclear whether or not it is related to step (b). If step (c) is performed upon the depressurized, plasticized thermoplastic material, it should be clearly and positively recited as such.

Step (d) of claim 15 is indefinite because it is unclear whether or not it is related to step (c). If step (d) is performed upon the at least partially foamed, depressurized, plasticized thermoplastic material, it should be clearly and positively recited as such.

Correction is required.

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 15-19, 24, 25, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al (USPN 5684055) in view of Grancio et al (USPN 4386188), Rubens et al (USPN 4693856), and Johnson et al (USPN 4424287) as set forth in the previous Office action mailed 12/10/07. In regard to foaming at a temperature less than the melt temperature of the thermoplastic material, such is taught by Kumar et al where the PET, which is known to have a melt temperature of above 200C, is foamed at 90C (col 5, lns 5-50).
- 6. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kumar et al (USPN 5684055) in view of Grancio et al (USPN 4386188), Rubens et al (USPN 4693856), Johnson et al (USPN 4424287), and Kumar (USPN 5223545) as set forth in the previous Office action mailed 12/10/07.
- 7. Applicant's arguments with respect to claims 15-18,23-25, and 28 have been considered but are moot in view of the new ground(s) of rejection.

In regard to applicant's argument that none of the references teach the limitations of claim 28, it should be noted that the well-known statement made by Ex. Kuhns in the Office action mailed 10/27/06 was never traversed by the applicant. Thus, the

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statement was accepted as admitted prior art. However, USPN 3937777 has been added to the record but not relied upon to illustrate the well-known idea of tempering foamed thermoplastic material in order to achieve a desired property.

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. USPN 3937777 teaches the well-known idea of tempering foamed thermoplastic material in order to achieve a desired property.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is 571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571.272.1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EDMUND H. LEE Primary Examiner Art Unit 1791

EHL

/EDMUND H. LEE/ Primary Examiner, Art Unit 1791